COMMONWEALTH OF KENTUCKY

BEFORE THE PUBLIC SERVICE COMMISSION

In the Matter of:

PROPOSED ADJUSTMENT OF THE WHOLESALE WATER SERVICE RATES OF THE CITY OF

) CASE NO. 2006-00403

**FALMOUTH** 

<u>ORDER</u>

Commission Staff, having performed a limited financial review of the city of

Falmouth's operations, has prepared the attached Staff Report containing Staff's

findings and recommendations regarding the city of Falmouth's proposed wholesale

rate. All parties should review the report carefully and provide any written comments or

requests for a hearing or informal conference no later than 10 days from the date of this

Order.

IT IS THEREFORE ORDERED that all parties shall have no more than 10 days

from the date of this Order to provide written comments regarding the attached Staff

Report or requests for hearing or informal conference. If no request for a hearing or

informal conference is received, this case will be submitted to the Commission for a

decision.

Done at Frankfort, Kentucky, this 11<sup>th</sup> day of May, 2007.

By the Commission

ATTEST:

Executive Director

#### STAFF REPORT

ON

### CITY OF FALMOUTH

#### CASE NO. 2006-00403

By letters dated August 18, 2006, the city of Falmouth ("Falmouth") notified Pendleton County Water District ("Pendleton") and East Pendleton County Water District ("East Pendleton") that Falmouth's wholesale water rate charged to each of them would be increased to \$2.10 and \$2.02 per thousand gallons, respectively. The current rate charged by Falmouth to each of the districts is \$1.98 per thousand gallons. By letter dated September 1, 2006, Pendleton and East Pendleton requested that the Kentucky Public Service Commission ("Commission") suspend Falmouth's proposed wholesale rate and investigate its reasonableness.

By Order dated September 22, 2006, the Commission suspended Falmouth's proposed wholesale rate and opened this case to review its reasonableness. That Order established a procedural schedule and included the Commission's initial request for information. Falmouth filed its response to the initial request on November 15, 2005. The Commission followed Falmouth's response with a second request for information by Order dated December 6, 2006. By a filing received by the Commission on January 8, 2007, Falmouth responded to the second request by asking that an informal conference be held. The Commission granted the request and directed an informal conference be held between Commission Staff ("Staff") and all parties on January 11, 2007. Pursuant to the conference the Commission issued an Order dated January 23, 2007, suspending all procedural schedules and Ordered Staff to perform a

limited financial review of Falmouth's operations and issue a report summarizing its findings and recommendations. Pursuant to the Commission Order, Staff performed a review and offers this report stating its findings and recommendations.

Jack Scott Lawless is responsible for Attachment A of this report which contains the adjusted pro forma operating statement and revenue requirement calculations. Jason Green is responsible for Attachment B of this report which is the cost of service study used to allocate the revenue requirements to Falmouth's customer classes for the development of the wholesale rate recommended by Staff.

The test-year used by Falmouth to determine its proposed wholesale rate was the fiscal year ended June 30, 2005. Staff's limited financial review was of Falmouth's test-year operations. The scope of Staff's review was limited to obtaining information as to whether the test-period operating revenues and expenses were representative of normal operations. All adjustments to test-year operations must be known and measurable as required by administrative regulation 807 KAR 5:001 Section 10 (7). Insignificant or immaterial discrepancies were not pursued and are not addressed herein.

All adjustments to test-year operations are shown and discussed in Attachment A of this report. As shown at page 35 of Attachment A Falmouth's revenue requirement from rates as determined by Staff is \$600,986. The portion of the revenue requirement from rates allocated to Pendleton and East Pendleton through the cost of service study as shown at page 6 of Attachment B is \$91,330 and \$149,016, respectively, and results in wholesale rates of \$1.68 and \$1.64 per thousand gallons, respectively. The total revenue requirement allocated to Pendleton and East Pendleton by Staff is \$240,346, a

Staff Report Case No. 2006-00403 decrease of 16 percent from test-year revenues of \$287,628 from wholesale water sales.

In its cost of service study Staff applied the "inch-miles" method to allocate expenses to Falmouth's wholesale customers. This method has been accepted by the Commission in past proceedings and it is Staff's opinion that this method is reasonable in this case. Since Falmouth supplies water to the two wholesale customers using differing portions of the system, two separate rates are appropriate.

Signatures:

Prepared by: Jack Scott Lawless, CPA Financial Analyst, Water and Sewer Revenue Requirements Branch Division of Financial Analysis

Prepared by: Jason Green Rate Analyst, Communications, Water, and Sewer Rate Design Branch Division of Financial Analysis

> Staff Report Case No. 2006-00403

# ATTACHMENT A STAFF REPORT CASE NO. 2006-00403 ADJUSTED OPERATIONS AND DETERMIMATION OF REVENUE REQUIREMENT

# **Summary of Review:**

In performing its review Staff obtained a general understanding of Falmouth's accounting and reporting system. Falmouth's accounting system is designed to account for each of its operating divisions separately. Each of Falmouth's operating divisions is accounted for in two separate funds: the general fund and the utility fund. The operating divisions accounted for in the general fund are Falmouth's police department, fire department, and city council while the utility fund includes accounting for Falmouth's electricity operations, water operations, sewer operations, garbage services and the city clerk's office.

Pro forma revenues and expenses for the Water Division as determined by Staff can be placed into one of these three categories: 1) directly assignable, 2) common to the utility fund, or 3) common to the utility and general funds.

Revenues and expense that are directly assignable to the Water Division are those that are identified as being collected or incurred as a direct result of providing water service and are not related to the operation or function of any other operating division. Pro forma revenues and expenses that are not directly assignable are common to Falmouth's water operations and either the general fund, the utility fund, or both. Common items were identified and allocated to the appropriate operating division based upon reasonable allocation methods. All allocation methods are discussed in the sections of this report where they are applied.

It is important to note that Staff's review was limited. Staff obtained a reasonable understanding of Falmouth's operations and internal controls and performed substantive and analytical procedures to attempt to insure that there are no misrepresentations in Staff's pro forma operating statement that would have a material effect on Staff's recommendations contained herein. However, Staff did not review 100 percent of Falmouth's business transactions, therefore, it is possible that the pro forma water operations as determined by Staff are not totally representative of the cost to operate Falmouth's water system.

## <u>Determination of Pro Forma Operations:</u>

For the test-year Falmouth reported Water Division operating expenses of \$644,699<sup>1</sup> which it proposed to increase by \$122,586 as shown below.

|   | Test<br>Year                                 | Ad | justments                             | Ρ  | ro forma                                |
|---|--|----|---------------------------------------|----|---|
| Salaries and Wages<br>Retirement, Health Insurance, FICA Tax<br>Other Operation and Maintenance<br>Depreciation | \$<br>272,629<br>65,292<br>225,249<br>81,529 | \$ | (43,827)<br>9,262<br>74,680<br>82,471 | \$ | 228,802<br>74,554<br>299,929<br>164,000 |
| Total   | \$<br>644,699                                | \$ | 122,586                               | \$ | 767,285                                 |

Falmouth's proposed adjustments to Salaries and Wages and Depreciation will be discussed by Staff in the sections of this report dedicated to those accounts.

The adjustment proposed by Falmouth to Retirement, Health Insurance and FICA Taxes is not detailed in Falmouth's cost of service study. Not knowing the nature of Falmouth's adjustment, Staff recommends that it be denied. Retirement, Health

Attachment A Case No. 2006-00403

<sup>&</sup>lt;sup>1</sup> See Falmouth's Response to Commission Order Dated September 22, 2006, Item 2, Page 90 of 94.

Insurance and FICA Taxes has been adjusted by Staff as described in the sections of this report dedicated to those accounts.

Falmouth proposed adjustments to all other operation and maintenance expenses to collectively increase test-year operations by \$74,680. These adjustments were based upon a budgeted "2-year projection." <sup>2</sup> Staff recommends that Falmouth's adjustments be denied as they do not meet the rate-making criteria of known and measurable as required by administrative regulation 807 KAR 5:001, Section 10 (7). Staff has recommended various adjustments to these operations and maintenance expense accounts as described in the following sections of this report.

Additionally, test-year other operation and maintenance expenses as determined by Falmouth and shown above includes interest expense and amortization of loan fees in the amounts of \$10,105 and 5,667, respectively. These expenses should have been reported "below the line." Staff has made this correction on its Adjusted Pro Forma Operating Statement shown below by not including them in the calculation of Net Operating Income.

Based upon the adjustments recommended by Staff, Falmouth's Water Division Adjusted Pro Forma Operating Statement appears as shown below. Explanation of all adjustments follows the Adjusted Pro Forma Operating Statement.

<sup>2</sup> <u>Id.</u>, Item 25 Page 15 of 26.

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| On cratical Designation                      |    | Test Year | Ad | ljustments |            | Ρ  | ro forma |
|--|----|-----------|----|------------|------------|----|----------|
| Operating Revenue Sales of Water             | \$ | 642,371   | \$ | (7,200)    | (Δ)        | Ф  | 635,171  |
| Other Water Revenue                          | φ  | 042,371   | φ  | 13,035     | (A)<br>(B) | φ  | 13,035   |
| Other Water Neverlue                         |    |           |    | 13,033     | (D)        |    | 13,033   |
| Total Operating Revenue                      |    | 642,371   |    | 5,835      |            |    | 648,206  |
| Operating Expenses                           |    |           |    |            |            |    |          |
| Operation and Maintenance                    |    |           |    |            |            |    |          |
| Salaries and Wages                           |    | 272,629   |    | (74,367)   | (D)        |    | 198,262  |
| Retirement                                   |    | 19,681    |    | 12,572     | (E)        |    | 32,253   |
| Employee Insurance                           |    | 27,635    |    | (6,547)    | (F)        |    | 21,088   |
| Workman's Compensation Insurance             |    | 23,545    |    | (15,246)   | (E)        |    | 8,299    |
| Bank Fees                                    |    | 1,363     |    | (542)      | (G)        |    | 821      |
| Electricity                                  |    |           |    | 24,662     | (H)        |    |          |
|  |    |           |    | (3,699)    | (I)        |    | 20,963   |
| Chemicals                                    |    | 53,212    |    | (4,405)    | (C)        |    |          |
|  |    |           |    | (7,321)    | (I)        |    | 41,486   |
| Consulting and Analysis                      |    | 16,389    |    | (7,198)    | (J)        |    | 9,191    |
| Advertising                                  |    | 1,884     |    |            |            |    | 1,884    |
| Printing                                     |    | 309       |    |            |            |    | 309      |
| Legal and Accounting                         |    | 4,221     |    | (1,597)    | (K)        |    | 2,624    |
| Insurance                                    |    | 71,827    |    | (22,223)   | (L)        |    | 49,604   |
| Repairs and Maintenance                      |    | 4,755     |    | 23,126     | (C)        |    |          |
|  |    |           |    | (2,515)    | (M)        |    | 25,366   |
| Travel                                       |    | 1,781     |    |            |            |    | 1,781    |
| Education and Training                       |    | 899       |    |            |            |    | 899      |
| Postage                                      |    | 1,046     |    |            |            |    | 1,046    |
| Utilities - Heat and Gas                     |    | 748       |    |            |            |    | 748      |
| Telephone                                    |    | 4,762     |    |            |            |    | 4,762    |
| Supplies                                     |    | 18,109    |    | (1,200)    | (D)        |    |          |
|  |    |           |    | (7,419)    | (N)        |    | 9,490    |
| Uniforms                                     |    | 4,594     |    | (2,288)    | (O)        |    | 2,306    |
| Gasoline                                     |    | (697)     |    | 4,405      | (C)        |    |          |
|  |    |           |    | (1,827)    | (P)        |    | 1,881    |
| Dues and Subscriptions                       |    | 634       |    |            |            |    | 634      |
| Equipment Expense                            |    | 904       |    | (255)      | (Q)        |    | 649      |
| Miscellaneous                                |    | 51        |    |            |            |    | 51       |
| Bad Debts                                    |    | 2,400     |    |            |            |    | 2,400    |
| Maintenance Garage                           |    |           |    | 2,315      | (R)        |    | 2,315    |
| City Hall                                    |    |           |    | 6,603      | (S)        |    | 6,603    |
|  |    |           |    |            |            |    |          |
| Total Operation and Maintenance Expenses     |    | 532,681   |    | (84,968)   |            |    | 447,713  |
| Taxes Other Than Income                      |    | 14,717    |    | 542        | (E)        |    | 15,259   |
| Depreciation Expense                         |    | 81,529    |    | (2,088)    | (T)        |    | 79,441   |
|  |    |           |    |            |            |    |          |
| Total Operating Expenses                     |    | 628,927   |    | (86,514)   |            |    | 542,413  |
| Net Operating Income                         |    | 13,444    |    | 92,349     |            |    | 105,793  |
| Plus: Interest Income                        |    | ·         |    | 2,357      | (U)        |    | 2,357    |
|  |    |           |    |            |            |    |          |
| Net Income Available to meet Operating Ratio | \$ | 13,444    | \$ | 94,706     |            | \$ | 108,150  |

- (A) <u>Water Sales</u>. Tap-fee collections of \$7,200 were reported in test-year water sales revenue. These collections are contributions in aid of construction and have been eliminated from operating revenues for rate-making purposes.
- (B) Other Operating Revenue. During the test-year Falmouth's Utility Fund reported revenue from late fees and penalties of \$35,739 and other revenues of \$5,777. Falmouth's accounting and reporting system does not directly assign or allocate these revenues to the individual Operating Divisions responsible for their generation.

The penalty revenue is generated by a 10 percent late payment penalty on Falmouth's electric, water, sewer, and garbage services. The other revenues are derived from returned check charges, turn-on fees, and merchandising activities. Since a portion of this revenue is derived from water operations an allocation is necessary.

Staff recommends that test-year other operating revenues be increased by \$13,035, as calculated below, to allocate a portion of the penalty and other revenue to the Water Division. The allocation method is based upon test-year service revenue of the Electric, Water, Sewer, and Garbage Divisions. Falmouth should start directly assigning other revenues to the proper Operating Divisions to more accurately report revenues.

| Operating Unit                        | Test Year<br>Service<br>Revenue |  | Percentage              | Allocated<br>Penalties and<br>Other |                                    |  |
|---------------------------------------|---------------------------------|--|-------------------------|-------------------------------------|------------------------------------|--|
| Electric<br>Water<br>Sewer<br>Garbage | \$                              | 1,013,124<br>642,371<br>215,235<br>175,170 | 50%<br>31%<br>11%<br>9% | \$                                  | 20,559<br>13,035<br>4,368<br>3,555 |  |
| Total                                 | \$                              | 2,045,900                                  | 100%                    | \$                                  | 41,516                             |  |

(C) Reversal of Prior Period Payables. When posting the test-year end audit adjustments certain reversing entries were posted to the wrong accounts. To correct this error the following entries are recommended by Staff.

|  | Dr.    | Cr.    |
|--|--------|--------|
| Gasoline<br>Chemicals                    | 4,405  | 4,405  |
| Repairs and Maintenance Plant In Service | 23,126 | 23.126 |

(D) <u>Salaries and Wages and Supplies</u>. As previously stated Falmouth proposed to decrease test-year salaries and wages expense by \$43,827.<sup>3</sup> Staff proposes to decrease test-year salaries and wages by \$74,367. Staff's adjustment is necessary to account for current employee and pay levels allocated to the Water Division and capitalized labor. Staff is not able to reconcile its adjustment to that of Falmouth as there are no employee names or job titles on Falmouth's worksheet detailing its calculations. Staff's adjustment is shown and explained in detail below.

| Pro Forma Field Employees  | \$169,793   |
|----------------------------|-------------|
| Pro Forma Office Employees | 29,670      |
| Less: Capitalized Labor    | (1,200)     |
| Less: Test Year Expense    | (272,629)   |
|                            |             |
| Decrease                   | \$ (74,367) |

Staff calculated its pro form adjustment based upon estimates of time worked by city field and office employees during the test-year on behalf of the Water Division.

Direct assignment of pro forma salaries and wages was not possible in the absence of

<sup>&</sup>lt;sup>3</sup> <u>Id.</u>, Item 24, Page 16 of 26, for a detail of Falmouth's pro forma Salary and Wage amount of \$228,802.

direct time reporting during the test-year. Direct time reporting requires that each employee track and record actual time worked for each operating division so that direct assignment of an employee's time can be charged to the appropriate Operating Division. It is Staff's understanding that Falmouth has recently implemented direct time reporting to more accurately account for salaries and wages as well as payroll overhead costs. This change will improve Falmouth's accounting system by charging payroll and payroll overhead costs to the appropriate operating division as expenditures are incurred.

Staff's calculation of pro forma salaries and wages allocated to the Water Division is \$169,793 for field employees and \$29,670 for office employees. Falmouth's Deputy Clerk identified 10 Falmouth field employees that performed duties on behalf of the Water Division during the test-year. The Deputy Clerk also provided the estimated time worked by these employees on behalf of the Water Division.

Staff calculated pro forma gross salaries and wages for the field employees by applying current pay rates to total hours worked in the test-year. Where new employees replaced former employees the new employee's pay rate was applied to the former employee's test-year hours. Staff then applied the estimated percentage of time worked on behalf of the Water Division to the pro forma gross salary and wage for each employee except for the three meter readers. For the meter readers Staff broke out meter reading time separately. This was necessary because the time estimates for the water operating division provided by the Deputy Clerk included meter reading for all electric and water services. The meter reading time was split among the Electric, Water and Sewer Divisions. Sewer billings are determined using water meter readings making

it appropriate and necessary to allocate a portion of the meter reading costs to the Sewer Division. The allocation method was based upon total customers served by each Operating Division.

The city clerk's office performs all administrative duties of the Utility Fund. Through discussions with Falmouth's Deputy Clerk, Staff developed the calculation of pro forma office salaries and wages to be allocated to the Water Division. In determining the pro forma amount Staff first calculated total pro forma salaries and wages by applying current pay rates to test year hours worked. Where a new employee replaced a former employee the new employee's pay rate was applied to the former employee's test year hours worked. The Deputy Clerk estimated that the clerk's office spent 90 percent of its time performing duties on behalf of the Utility Fund. Staff therefore allocated 90 percent of the pro forma salaries and wages to the Utility Fund Operating Divisions based upon the number of customers served by each Operating Division at the end of the test-year.

The following schedules detail Staff's calculations as discussed above.

|          |   |   |  | Percent of Time Dedicated to Water Operations   |   |
|----------|---|---|--|---|---|
|          |   | Overtime  |  | and Meter Reading   | Percent of  |
| Current  | Regular   | Hours Paid  | Pro forma  | for Water and   | Time Spe  |
| Pay Rate | Hours   | at 1.5  | Salary   | Electric  | Reading Me  |
| (Col. A) | (Col. B)  | (Col. C)  | (Col. D)   | (Col. E)  | (Col. F)  |
|          |   |   | (AxB)+(Ax1.5xC)  |   |   |
| 9.00     | 2,080.00  |   | 18,720.00  | 30.00%  | )   |
| 14.36    | 2,073.00  | 289.00  | 35,993.34  | 100.00%   | )   |
| 13.38    | 2,028.50  | 117.00  | 29,489.52  | 45.00%  | 5 13  |
| 11.45    | 2,083.50  | 51.50   | 24,740.59  | 45.00%  | 5 13  |
| 928.85   | per week  |   | 48,300.20  | 50.00%  | j   |
| 11.45    | 2,080.00  | 58.00   | 24,812.15  | 40.00%  | 5 13  |
| 13.58    | 2,084.00  | 461.00  | 37,691.29  | 60.00%  | )   |
| 928.85   | per week  |   | 48,300.20  | 30.00%  | )   |
| 16.15    | 2,086.00  | 174.50  | 37,916.16  | 25.00%  | ,   |
| 13.68    | 2,076.00  | 100.50  | 30,461.94  | 100.00%   | ,   |
|          |   | -   | \$ 336,425   | -   |   |
|          | 9.00<br>14.36<br>13.38<br>11.45<br>928.85<br>11.45<br>13.58<br>928.85 | Pay Rate (Col. A) (Col. B)  9.00 2,080.00 14.36 2,073.00 13.38 2,028.50 11.45 2,083.50 928.85 per week 11.45 2,080.00 13.58 2,084.00 928.85 per week 16.15 2,086.00 | Current         Regular         Hours Paid           Pay Rate         Hours         at 1.5           (Col. A)         (Col. B)         (Col. C)           9.00         2,080.00         289.00           14.36         2,073.00         289.00           13.38         2,028.50         117.00           11.45         2,083.50         51.50           928.85         per week           11.45         2,080.00         58.00           13.58         2,084.00         461.00           928.85         per week           16.15         2,086.00         174.50 | Current         Regular         Hours Paid         Pro forma           Pay Rate         Hours         at 1.5         Salary           (Col. A)         (Col. B)         (Col. C)         (Col. D)           9.00         2,080.00         18,720.00           14.36         2,073.00         289.00         35,993.34           13.38         2,028.50         117.00         29,489.52           11.45         2,083.50         51.50         24,740.59           928.85         per week         48,300.20           11.45         2,080.00         58.00         24,812.15           13.58         2,084.00         461.00         37,691.29           928.85         per week         48,300.20           16.15         2,086.00         174.50         37,916.16           13.68         2,076.00         100.50         30,461.94 | Current Regular Hours Paid Pro forma for Water And Electric (Col. A) (Col. B) (Col. C) (Col. D) (AxB)+(Ax1.5xC)  9.00 2,080.00 18,720.00 30.00% 14.36 2,073.00 289.00 35,993.34 100.00% 13.38 2,028.50 117.00 29,489.52 45.00% 11.45 2,083.50 51.50 24,740.59 45.00% 928.85 per week 48,300.20 50.00% 13.58 2,084.00 461.00 37,691.29 60.00% 928.85 per week 48,300.20 30.00% 13.68 2,076.00 100.50 30,461.94 100.00% |

| Allocation for Meter Reading | Number of<br>Customers<br>6/30/2005 | Meter<br>Reading<br>Allocation |
|------------------------------|-------------------------------------|--------------------------------|
| Utility Fund Operating Unit  |                                     |                                |
| Water                        | 1,042                               | 32.92%                         |
| Sewer                        | 1,012                               | 31.97%                         |
| Electric                     | 1,111                               | 35.10%                         |
| Total                        | 3,165                               | 100.00%                        |
|                              |                                     |                                |

Total Workda Days Spent I Percent Of D Times: Mete Percent of I Water for

|                  |          |          |            |                 | Percent of     |                |
|------------------|----------|----------|------------|-----------------|----------------|----------------|
| Office Employees |          |          |            |                 | Time           | Amount         |
|                  |          |          |            |                 | Dedicated      | Allocated      |
|                  |          |          | Overtime   |                 | to Utility     | to Utility     |
|                  | Current  | Regular  | Hours Paid | Pro forma       | Fund Operating | Fund Operating |
|                  | Pay Rate | Hours    | at 1.5     | Salary          | Units          | Units          |
|                  | (Col. A) | (Col. B) | (Col. C)   | (Col. D)        | (Col. E)       | (Col. F)       |
| Title            |          |          |            | (AxB)+(Ax1.5xC) |                | (DxE)          |
| Clerk, Part-Time | 12.43    | 1,416.50 |            | 17,607.10       | 90%            | 15,846.39      |
| County Clerk     | 928.85   | per week |            | 48,300.20       | 90%            | 43,470.18      |
| Deputy Clerk     | 16.16    | 2,085.00 | 18.00      | 34,129.92       | 90%            | 30,716.93      |
| Clerk            | 14.94    | 2,071.00 | 17.00      | 31,321.71       | 90%            | 28,189.54      |
| Total            |          |          | -          | \$ 131,359      |                | \$ 118,223     |
|                  |          |          | _          |                 |                |                |

|                               | Number of |          |
|-------------------------------|-----------|----------|
| Allocation for Clerk's Office | Customers |          |
|                               | 6/30/2005 |          |
| Utility Fund Operating Unit   |           |          |
| Water                         | 1,042     | 25.10%   |
| Sewer                         | 1,012     | 24.37%   |
| Electric                      | 1,111     | 26.76%   |
| Garbage                       | 987       | 23.77%   |
| Total                         | 4.450     | 400.000/ |
| Total                         | 4,152     | 100.00%  |
|                               |           |          |

Staff reduced pro forma salaries and wages by \$1,200 to capitalize labor for the installation of four new taps. During the test-year Falmouth installed four new taps. The cost of these installations was recorded in test-year expenses when they should have been capitalized. The cost of each service installation has been determined by Falmouth to be \$600, the amount of its tap fee charged to recover the costs. The total amount to be capitalized is then \$2,400 (\$600 x 4 taps). The cost of the taps includes payroll and payroll overhead charges, materials and supplies, transportation, and equipment costs. Technically, all the accounts to which these expenses were charged should be adjusted, however, to simplify the matter Staff has applied its adjustment to Salaries and Wages and Supplies Expense on a 50/50 basis by removing \$1,200 from each account. This simpler approach does not result in a material misstatement. The rate recovery of these costs is included in Staff's calculation of pro forma depreciation expense as addressed later in this report.

(E) Retirement, Workers Compensation Insurance, Taxes Other Than Income. These accounts all require adjustment as a result of the aforementioned payroll adjustments. Due to Staff capitalizing all new tap costs through the salaries and wages and supplies expense accounts, the adjustments to these accounts ignore capitalization for new tap installations.

Falmouth participates in the County Employees Retirement Systems by making retirement contributions on behalf of its employees based upon their pay. The contribution rate for the fiscal year end June 30, 2008 is 16.17 percent. Staff has

increased test-year expenses to reflect this contribution rate applied to the pro forma salaries and wages allocated to the Water Division.

| Retirement Pro form Salaries and Wages Times: Contribution Rate FYE 6/30/08 | \$199,462<br>16.17% |
|---|---------------------|
| Pro Forma<br>Less: Test Year  | 32,253<br>(19,681)  |
| Increase  | \$ 12,572           |

Falmouth reported test-year workers compensation insurance of \$23,545. Staff has decreased this amount by \$15,246. Staff's adjustment is shown below and was determined by applying test-year workers compensation rates to the Water Division's allocated pro forma salaries and wages as previously determined and discussed.

| Field Employee's Pay         | \$169,793   |
|------------------------------|-------------|
| Workers Comp Rate            | 4.83%       |
| Pro forma Workers Comp Field | 8,201       |
| Office Employee's Pay        | 29,670      |
| Workers Comp Rate            | 0.33%       |
| Workers Comp Office          | 98          |
| Total Pro Forma              | 8,299       |
| Less: Test Year              | (23,545)    |
| Decrease                     | \$ (15,246) |

Staff has increased test-year FICA taxes by \$542 calculated as follows:

| Pro Forma Salaries and Wages | \$199,462 |
|------------------------------|-----------|
| Times: FICA Tax Rate         | 7.65%     |
|                              |           |
| Pro Forma                    | 15,259    |
| Less: Test Year              | (14,717)  |
|                              | , ,       |
| Increase                     | \$ 542    |
|                              |           |

(F) Employee Insurance. Falmouth provides single coverage health, life and disability insurance to all full-time employees. The Water Division reported employee insurance of \$27,635 for the test-year. Staff has decreased that amount by \$6,547 to account for current employee levels, monthly premiums, and allocations to the Water Division following the salaries and wages allocations. The percentage used to allocate insurance for the Clerk's Office is 22.59 percent (90 percent for Utility Fund x 25.10 percent number of water customers). The calculations are shown below.

|  |                 |            |           | Payroll   |            |
|--|-----------------|------------|-----------|-----------|------------|
|  | Monthly Premium |            |           | Percent   | Insurance  |
|  |                 | Life/      |           | Allocated | Allocated  |
| Title  | Health          | Disability | Total     | to Water  | to Water   |
| MaintWater, Sewer, Electric                  | \$ 291.50       | \$ 19.59   | \$ 311.09 | 30.00%    | \$ 93      |
| Water Plant Operator                         | 291.50          | 19.59      | 311.09    | 100.00%   | 311        |
| MaintWater, Electric (Meter Reader)          | 291.50          | 19.59      | 311.09    | 35.71%    | 111        |
| MaintWater, Sewer, Electric (Meter Reader)   | 291.50          | 19.59      | 311.09    | 35.71%    | 111        |
| Oper. Manager-Water, Sewer                   | 291.50          | 19.59      | 311.09    | 50.00%    | 156        |
| MaintWater, Sewer, Electric (Meter Reader)   | 291.50          | 19.59      | 311.09    | 30.71%    | 96         |
| MaintWater, Sewer                            | 291.50          | 19.59      | 311.09    | 60.00%    | 187        |
| Supervisor-Water, Sewer, Electric, Garbage   | 291.50          | 19.59      | 311.09    | 30.00%    | 93         |
| Forman-Electric, Water                       | 291.50          | 19.59      | 311.09    | 25.00%    | 78         |
| Water Plant Operator                         | 291.50          | 19.59      | 311.09    | 100.00%   | 311        |
| Clerk, Part-Time                             |                 |            | -         | 22.59%    | -          |
| County Clerk                                 | 291.50          | 19.59      | 311.09    | 22.59%    | 70         |
| Deputy Clerk                                 | 291.50          | 19.59      | 311.09    | 22.59%    | 70         |
| Clerk  | 291.50          | 19.59      | 311.09    | 22.59%    | 70         |
| Pro Forma Monthly Expense Allocated to Water |                 |            |           |           | 1,757      |
| Times: 12 Months                             |                 |            |           |           | 12         |
| Pro Forma Expense                            |                 |            |           |           | 21,088     |
| Less: Test Year                              |                 |            |           |           | (27,635)   |
| Decrease                                     |                 |            |           |           | \$ (6,547) |
|  |                 |            |           | :         |            |

(G) <u>Bank Fees</u>. The Water Division reported bank fees in the amount of \$1,363. This amount represents the Water Division's allocated portion of Falmouth's total test-

year payroll check preparation expense of \$4,613 paid to Paycor. Staff has reallocated the test-year amount by decreasing test-year expenses by \$528. Staff calculated its adjustment by determining the gross processing costs per check for the test-year for all Operating Divisions, applying that amount to the number of checks written to employees performing duties for the Water Division, and allocating the result based upon the payroll allocation percentages previously calculated and discussed. Staff's calculations appear below.

| Calculation of Cost Per Check   |  |   |  |  |  |
|---|--|---|--|--|--|
| Total<br>Invoice  | Number of<br>Checks  | Cost Per<br>Check   |  |  |  |
| \$ 349.60<br>349.61<br>349.60<br>431.42<br>349.60<br>369.35<br>525.99<br>355.30<br>364.75<br>433.71<br>373.19<br>361.36 | 132<br>132<br>161<br>132<br>132<br>181<br>133<br>136<br>161<br>154 | \$ 2.65<br>2.65<br>2.65<br>2.68<br>2.65<br>2.80<br>2.91<br>2.67<br>2.68<br>2.69<br>2.42<br>2.76 |  |  |  |
| \$ 4,613  | 1,717  | \$ 2.69   |  |  |  |
|   | •  |   |  |  |  |

|           |  | Darmali   | 1   |
|-----------|--|---|---|
|           |  | •   |   |
|           | _  |   |   |
| Number of |  | Allocated   | Allocated   |
| Checks    | Check  | to Water  | to Water  |
|           |  |   | <b>4.</b> 4.4 00  |
|           | •  |   | •   |
| 52        | 2.69   | 100.00%   | 139.72  |
| 52        | 2.69   | 35.71%  | 49.90   |
| 52        | 2.69   | 35.71%  | 49.90   |
| 52        | 2.69   | 50.00%  | 69.86   |
| 52        | 2.69   | 30.71%  | 42.91   |
| 52        | 2.69   | 60.00%  | 83.83   |
| 52        | 2.69   | 30.00%  | 41.92   |
| 52        | 2.69   | 25.00%  | 34.93   |
| 52        | 2.69   | 100.00%   | 139.72  |
| 52        | 2.69   | 22.59%  | 31.56   |
| 52        | 2.69   | 22.59%  | 31.56   |
| 52        | 2.69   | 22.59%  | 31.56   |
| 52        | 2.69   | 22.59%  | 31.56   |
|           |  | •   |   |
|           |  |   | 821   |
|           |  |   | (1,363)   |
|           |  |   |   |
|           |  | •   | \$ (542)  |
|           |  | :   | , /   |
|           | 52<br>52<br>52<br>52<br>52<br>52<br>52<br>52<br>52<br>52<br>52<br>52 | Checks         Check           52         \$ 2.69           52         2.69           52         2.69           52         2.69           52         2.69           52         2.69           52         2.69           52         2.69           52         2.69           52         2.69           52         2.69           52         2.69           52         2.69           52         2.69           52         2.69           52         2.69           52         2.69           52         2.69           52         2.69           52         2.69 | Checks         Check         to Water           52         \$ 2.69         30.00%           52         2.69         100.00%           52         2.69         35.71%           52         2.69         35.71%           52         2.69         50.00%           52         2.69         30.71%           52         2.69         30.00%           52         2.69         25.00%           52         2.69         100.00%           52         2.69         22.59%           52         2.69         22.59%           52         2.69         22.59%           52         2.69         22.59% |

- (H) <u>Purchased Power</u>. During the test-year Falmouth paid \$22,982 from its Electric Division funds to Kentucky Utilities for purchased power to operate its water treatment facilities and \$1,680 to Bluegrass Energy for purchased power to operate its two water pumping stations. These amounts were charged to the expenses of Falmouth's Electric Division when they should have been included in the Water Division operating expenses. Staff has increased Water Division test-year expenses by \$24,662 to properly account for this purchased power expense.
- (I) <u>Purchased Power and Chemicals / Excess Water Loss</u>. Falmouth did not track water loss during the test year. They began calculating water loss in January, 2006. For the annual period ending December 31, 2006, Falmouth had an annual water loss of 30 percent. Administrative regulation 807 KAR 5:066 Section 6 (3) states that

"[e]xcept for purchased water rate adjustments for water districts and water associations, and rate adjustments pursuant to KRS 278.023(4), for rate-making purposes a utility's unaccounted-for water loss shall not exceed fifteen (15) percent of total water produced and purchased, excluding water used by a utility in its own operations. Upon application by a utility in a rate case filing or by separate filing, or upon motion by the commission, an alternative level of reasonable unaccounted-for water loss may be established by the commission. A utility proposing an alternative level shall have the burden of demonstrating that the alternative level is more reasonable that the level prescribed in this section."

Falmouth did not demonstrate in its application that a water loss in excess of 15 percent is reasonable. By decreasing purchased power for pumping and chemicals by \$3,699 and \$7,321, respectively, Staff has eliminated 15 percent (30 percent lost – 15 percent allowed) of the direct cost to produce the excess loss. Detail of the adjustments is shown below.

| ۱۸ | /ater | Loss |
|----|-------|------|
|    |       |      |

| Purchased Power for Pumping<br>Times: 15 percent lost   | \$<br>24,662<br>15%     |
|---|-------------------------|
| Decrease  | \$<br>(3,699)           |
| Test Year Chemicals<br>Less: Staff Reversing Adjustment | \$<br>53,212<br>(4,405) |
| Sub-Total<br>Times: 15 percent lost                     | 48,807<br>15%           |
| Decrease  | \$<br>(7,321)           |

(J) <u>Consulting and Analysis</u>. Water Division test-year expenses includes \$7,198 paid to Cardinal Laboratories, Inc. for wastewater analysis that should have been

charged to the Sewer Division. Staff has eliminated this amount from test-year operations.

(K) <u>Legal and Accounting</u>. Included in the test-year expenses is \$1,997 paid to the Kentucky League of Cities for legal services related to a water employee nepotism lawsuit filed against Falmouth. This expense is non-recurring and should be amortized. By making the following adjustment Staff has accounted for the five-year amortization of this expense. A five-year period was chosen to coincide with the time to elapse between water rate adjustments. While the actual time between rate adjustments may be longer, a longer amortization period in Staff's opinion would be unreasonable.

| Test Year Expense     | \$<br>1,997   |
|-----------------------|---------------|
| Divide by: Five Years | 5             |
|                       |               |
| Annual Recovery       | 399           |
| Less: Test Year       | (1,997)       |
|                       |               |
| Decrease              | \$<br>(1,597) |

(L) <u>Insurance</u>. The Water Division reported test-year insurance expense of \$71,827 for property, general liability, and vehicle insurance. Staff recommends that the test-year amount be decreased by \$22,223 as shown below to account for reallocation of the test-year expense.

| Property Vehicle General Liability Finance Charge | \$<br>14,481<br>7,275<br>26,360<br>1,488 |
|---|--|
| Pro Forma<br>Less: Test Year                      | 49,604<br>(71,827)                       |
| Decrease  | \$<br>(22,223)                           |

The property insurance premiums included in Water Division operations by Staff are shown below. The amounts were determined by analysis of vendor premium summaries.

| Property Insurance                                  |    |        |
|---|----|--------|
| Kentucky League of Cities                           |    |        |
| 512 Shelby Street Building                          | \$ | 1,457  |
| 512 Shelby Street Chemical Building                 |    | 3,211  |
| US 27 South Water Tower                             |    | 707    |
| WTP Clearwell                                       |    | 195    |
| WTP Backwash Basin                                  |    | 162    |
| WTP New Clearwell                                   |    | 142    |
| WTP Old Filter Builidng                             |    | 1,066  |
| WTP Settling Basin                                  |    | 106    |
| WTP Sludge Pump                                     |    | 64     |
| WTP Aeration Basin                                  |    | 373    |
| WTP Blower Buildings                                |    | 267    |
| Backhoe and Bob Cat \$851 Total, Split Water/Sewer/ |    |        |
| Electric, 32.92% to Water                           |    | 280    |
| Hartford Fire Insurance Company                     |    |        |
| 508 Shelby Street Chemical Building                 |    | 6,451  |
| Total Property                                      | •  | 14,481 |
| Total FToperty                                      | Ψ  | 14,401 |

All property insurance listed above is related entirely to water operations except for the backhoe and Bob Cat which are also used by the Sewer and Electric Divisions. The Water Division was allocated \$280 of the total \$851 premium based on the number of customers served by each division. Calculation of this allocation percentage was shown previously in the Salaries and Wages adjustment.

In the test-year Falmouth insured 53 vehicles or pieces of equipment excluding the backhoe and Bob Cat referred to above. Staff's allocation of insurance for these items to the Water Division is \$7,275. Staff's allocation was determined from a premium summary sheet listing all 53 items. Falmouth employees identified each item on the sheet that was used by the Water Division. Some items were identified as water use

only while others were identified as used to provide water, sewer, electric, and/or garbage services. The shared items were allocated based upon the number of customers served by each Operating Division using the item. Calculation of the allocation percentages used by Staff is shown below followed by the calculation of the vehicle and equipment insurance expense allocations.

|                          | Number of<br>Customers | Percentage       |                             | Number of<br>Customers | Percentage       |
|--------------------------|------------------------|------------------|-----------------------------|------------------------|------------------|
| Water Unit<br>Sewer Unit | 1,042<br>1,012         | 50.73%<br>49.27% | Water Unit<br>Electric Unit | 1,042<br>1,111         | 48.40%<br>51.60% |
| Total                    | 2,054                  | 100.00%          | Total                       | 2,153                  | 100.00%          |

| ehic     | le Insurance | <b>)</b>       |         |    |       |            |          |
|----------|--------------|----------------|---------|----|-------|------------|----------|
|          |              |                |         |    |       | Percent to | Allocate |
| Ke       | entucky Leag | gue of Cities  |         | Pr | emium | Water Unit | Amour    |
|          | Water Only   | y              |         |    |       |            |          |
|          | 1989 Ford    | F600           |         | \$ | 1,371 | 100%       | \$ 1,37  |
|          | 1989 Chev    | rolet 3/4 Ton  | P/U     |    | 1,344 | 100%       | 1,34     |
|          | 1995 Chev    | rolet Dump Tr  | uck     |    | 1,376 | 100%       | 1,37     |
| $\vdash$ | Shared by    | Water and E    | lectric |    |       |            |          |
|          | 1979 Chev    | rolet Dump Tr  | uck     |    | 1,590 | 48.40%     | 77       |
|          | Shared by    | Water and S    | ewer    |    |       |            |          |
|          | 1999 Ford    | P/U            |         |    | 1,611 | 50.73%     | 81       |
|          | 2001 Ford    | P/U            |         |    | 1,474 | 50.73%     | 74       |
|          | 1988 Dodg    | je 1/2 Ton P/l | J       |    | 856   | 50.73%     | 43       |
|          | 1970 Ford    | 2 Ton Dump     |         |    | 818   | 50.73%     | 41       |
| То       | tal Vehicle  |                |         |    |       |            | \$ 7,27  |

The Water Division's portion of the test-year general liability insurance paid to the Kentucky League of Cities was \$26,360. Staff included this amount in its pro forma calculation.

Falmouth financed the total test-year insurance premium paid to the Kentucky League of Cities in the amount of \$163,892. The interest charge for this financing was

\$5,852. Staff has included an allocation of this finance charge in its pro forma insurance calculation. Staff's finance charge allocation was based upon the total insurance premiums paid to the Kentucky League of Cities allocated by Staff to the Water Division (\$48,116 total water allocation - \$6,451 paid to Hartford Insurance) compared to the total financed insurance premium. The calculation is detailed below.

| Finance Charges                                     |              |
|---|--------------|
| Total Kentucky League of Cities Insurance Allocated |              |
| to the Water Unit                                   | \$<br>41,665 |
| Divide by: Total Financed                           | 163,892      |
|   |              |
| Percent of Finance Charge to Water                  | 25.42%       |
| Times: Finance Charge                               | 5,852        |
| -   |              |
| Finance Charge to Water                             | \$<br>1,488  |
|   |              |

(M) Repairs and Maintenance. The Water Division reported test-year repairs and maintenance expense of \$4,755. Staff previously increased this amount by \$23,126 as discussed in the section of this report pertaining to Reversal of Prior Period Payables. Through analysis of entries to this account Staff further recommends to decrease this account by \$2,515 as detailed below.

| Eliminated                                | \$<br>(560)   |
|---|---------------|
| Capitalized                               | (709)         |
| Allocated to Sewer                        | (1,080)       |
| Allcoated to Sewer, Electric, and Garbage | (167)         |
| Decrease                                  | \$<br>(2,515) |

The eliminated amounts were incurred by Falmouth for operations other than those of the Water Division and are detailed below.

| American Family Insurance<br>Econo Sign & Barricade<br>Kavanaugh Trucking<br>Econo Sign & Barricade | <ul><li>(260) Employee paid insurance</li><li>(49) Street signs</li><li>(199) Gravel city barn parking lot</li><li>(51) Handicapped signs</li></ul> |
|---|---|
| Total   | \$ (560)  |

The capitalized portion of the adjustment was for \$709 paid on January 18, 2005, to Neptune Equipment Co. in return for 10, 5/8"x3/4" meters and 3, 1" meters. This amount has been capitalized and included in Staff's determination of pro forma depreciation expense.

Repairs and maintenance included expenses totaling \$2,193 incurred for meter repairs. Staff has allocated a portion of this expense to the Sewer Division based on the total number of customers served by the Water and Sewer Divisions. The Sewer Division should share in the cost of maintaining meters since sewer billings are based on the water meter readings. The adjustment is shown below.

| Florence Winwater Works<br>National Waterworks<br>Florence Winwater Works | \$<br>1,360      | Miscellaneous meter repairs expense Miscellaneous meter repairs expense Miscellaneous meter repairs expense |
|---|------------------|---|
| Total Times: Percent to Water Unit  | 2,193<br>50.73%  | Calculation shown in insurance adjustment   |
| Allocated to Water Unit<br>Less: Test Year                                | 1,112<br>(2,193) |   |
| Decrease  | \$<br>(1,080)    |   |

The test-year expense included the cost of purchasing a 55 gallon barrel of oil held at the maintenance garage and used by all members of the Utility Fund. By making the following adjustment Staff has accounted for allocating this expense to each operating division of the Utility Fund using the maintenance garage based on the number of customers served by each division.

| Kentucky Motor Service East, Inc. | \$ 223 55 gallons of 10W40                    |
|-----------------------------------|---|
| Times: Percent to Water Unit      | 25.10% Calculation shown in salary adjustment |
| Allocated to Water Unit           | 56  |
| Less: Test Year                   | (223)   |
| Decrease                          | \$ (167)                                      |

(N) <u>Supplies</u>. The Water Division reported test-year supplies of \$18,109. Staff previously decreased this amount by \$1,200 to capitalize the supply cost of installing four taps as discussed in the section of this report pertaining to the Salaries and Wages adjustment. Through analysis of entries to this account Staff further recommends to decrease Supplies by \$7,419 as detailed below.

| Eliminated                      | \$ (2,500) |
|---------------------------------|------------|
| Capitalized                     | (2,500)    |
| Allocated to Sewer              | (1,716)    |
| Allocated to Sewer and Electric | (338)      |
| Allcoated to Sewer, Electric,   |            |
| and Garbage                     | (366)      |
|                                 |            |
| Decrease                        | \$ (7,419) |

The eliminated amounts were incurred by Falmouth for operations other than those of the Water Division and are detailed below.

| Econo Sign & Barricade | \$ (930) Stop signs          |
|------------------------|------------------------------|
| Reis Concrete Products | (876) Concrete storm culvert |
| Econo Sign & Barricade | (103) No dumping signs       |
| ORR Safety Corp.       | (536) Wastewater equipment   |
| Econo Sign & Barricade | (55) Railroad sign           |
|                        |                              |
| Total                  | \$(2,500)                    |

The amount capitalized by Staff includes the cost of a small utility trailer used jointly by the Water and Sewer Divisions and the cost of meters and meter installation supplies that should be capitalized. These capitalized meter supplies have been off-set by the amount previously capitalized by Staff for the four new taps. The cost of these

taps was included in test-year supplies expenses but Staff has already removed \$1,200 of them through a previous adjustment. To remove them again would understate expenses and overstate plant in service. The following details this portion of the adjustment.

| Viking Supply, Inc.<br>M&M Trailor<br>Neptune Equipment<br>Florence Winwater | \$(1,358) Meters and supplies (775) Water and sewer utility trailor (1,117) 20 water meters and supplies (450) 24 meter boxes |
|--|---|
| Total Plus: Amount already capitalized by Staff as explained in the Salary   | (3,700)   |
| and Wage adjustment  | 1,200   |
| Additional to Capitalize   | \$(2,500)   |

Staff identified the following items included in the supplies account that are shared with the Sewer Division. As previously discussed sewer billings are based on the water meter readings making allocation of meter expenses to the Sewer Division appropriate and necessary. The weed trimmer is used at the water and sewer plants. The allocation is based upon the number of customers served by each division.

| Anderson's Garage            | \$    | 299    | Weed trimmer                              |
|------------------------------|-------|--------|---|
| National Waterworks          |       | 769    | Meter repair supplies                     |
| Florence Winwater            |       | 225    | Meter repair supplies                     |
| Viking Supply                | 1     | 1,322  | Meter repair supplies                     |
| Viking Supply                |       | 869    | Meter repair supplies                     |
|                              |       |        |   |
| Total                        | 3     | 3,483  | _   |
| Times: Percent to Water Unit | 50    | 0.73%  | Calculation shown in insurance adjustment |
|                              |       |        |   |
| Allocated to Water Unit      | 1     | 1,767  |   |
| Less: Test Year              | (3    | 3,483) |   |
|                              |       |        | _   |
| Decrease                     | \$ (1 | 1,716) | <u>-</u>                                  |
|                              |       |        |   |

Included in the test-year expense was a \$503 repair to the backhoe that is used by the Water, Sewer, and Electric Divisions. The following adjustment was made to

reallocate this expense based on the number of customers served by each Operating Division.

| Bowen Farm Supplies          | \$ 503 Backhoe repair                         |
|------------------------------|---|
| Times: Percent to Water Unit | 32.92% Calculation shown in salary adjustment |
|                              |   |
| Allocated to Water Unit      | 166   |
| Less: Test Year              | (503)   |
| Less. Test Teal              | (505)   |
| Danner                       | <b>(220)</b>                                  |
| Decrease                     | \$ (338)                                      |

Included in the test-year expense was \$549 for the purchase of storage bins for the maintenance garage which is used by the Water, Sewer, Electric, and Garbage Divisions. The following adjustment was made to reallocate this expense based on the number of customers served by each Operating Division.

| Falmouth Lumber and Supply<br>Times: Percent to Water Unit | \$ 549 Bolt bins at maintenance garage  25.10% Calculation shown in salary adjustment |
|--|---|
| Allocated to Water Unit<br>Less: Test Year                 | 138<br>(503)  |
| Decrease   | \$ (366)  |

(O) <u>Uniforms</u>. Test-year employee uniform expense was reported at \$4,594 by the Water Division. Staff has decreased this amount by \$2,288 to account for the reallocation of current uniform expenses. Currently, Falmouth pays water plant operators, field employees, and office employees, \$500, \$381.68, and \$125, respectively, per year for uniforms. The allocation of these expenses follows the allocation of employee salaries and wages as previously discussed. Staff's adjustment is calculated below.

|  |        |      | Percent of |       |        |
|--|--------|------|------------|-------|--------|
|  | Annı   | ual  | Payroll to | Uni   | forms  |
|  | Allowa | ance | Water      | to \  | Nater  |
| Field Employees                            |        |      |            |       |        |
| MaintWater, Sewer, Electric                | \$     | 382  | 30.00%     | \$    | 115    |
| Water Plant Operator                       | ;      | 500  | 100.00%    |       | 500    |
| MaintWater, Electric (Meter Reader)        | ;      | 382  | 35.71%     |       | 136    |
| MaintWater, Sewer, Electric (Meter Reader) | ;      | 382  | 35.71%     |       | 136    |
| Oper. Manager-Water, Sewer                 | ;      | 500  | 50.00%     |       | 250    |
| MaintWater, Sewer, Electric (Meter Reader) | ;      | 382  | 30.71%     |       | 117    |
| MaintWater, Sewer                          | ;      | 382  | 60.00%     |       | 229    |
| Supervisor-Water, Sewer, Electric, Garbage | ;      | 382  | 30.00%     |       | 115    |
| Forman-Electric, Water                     | ;      | 382  | 25.00%     |       | 95     |
| Water Plant Operator                       | ;      | 500  | 100.00%    |       | 500    |
|  |        |      |            |       |        |
| Total Field                                | 4,     | 172  |            |       | 2,193  |
| 000 5 1                                    |        |      |            |       |        |
| Office Employees                           |        |      |            |       |        |
| Clerk, Part-Time                           |        | 125  | 22.59%     |       | 28     |
| County Clerk                               |        | 125  | 22.59%     |       | 28     |
| Deputy Clerk                               |        | 125  | 22.59%     |       | 28     |
| Clerk                                      | ,      | 125  | 22.59%     |       | 28     |
| T / 10//                                   |        | 500  |            |       | 110    |
| Total Office                               |        | 500  |            |       | 113    |
| Total                                      | \$ 4,  | 672  |            | 2     | 2,306  |
| Less: Test Year                            |        |      |            | (4    | 4,594) |
|  |        |      |            | `     |        |
| Decrease                                   |        |      |            | \$ (2 | 2,288) |

(P) <u>Gasoline</u>. The Water Division reported test-year gasoline expense of (\$697). The negative balance was the result of posting errors to the account for reversing entries as discussed and corrected by Staff previously. Staff's adjustment to correct the posting error restated the amount to \$3,708. Staff further recommends this amount be decreased by \$1,827 to account for the allocation of Sewer Division gasoline expenses.

All gasoline purchases of the Utility Fund Operating Divisions are made from Licking Valley Oil, Inc. The purchases are charged directly to the Water, Electric, and Garbage Divisions by the clerk's office when monthly review of the purchase invoice summaries is performed to make payment on the account. During this process all

gasoline used for sewer operations is charged to the Water Division. An allocation is then necessary to remove the sewer related expense from the Water Division's operations. Absent a better allocation method Staff has used the number of customers served by each division as its basis for allocation. Staff's adjustment is detailed below.

| Book Balance                   | \$ (697)   |
|--------------------------------|--|
| Reversing Entry Adjustment     | 4,405  |
|                                | a ====   |
| Water and Sewer Gasoline       | 3,708  |
| Times: Percent to Water        | 50.73% Calculation shown in insurance adjustment |
|                                |  |
| Amount to Water                | 1,881  |
| Less: Water and Sewer Gasoline | (3,708)  |
|                                |  |
| Decrease                       | \$ (1,827)                                       |
|                                |  |

- (Q) <u>Equipment Expense</u>. Rental fees for a port-o-potty located at the city park were included in test-year equipment expense. This amount has been removed by Staff.
- (R) <u>Maintenance Garage</u>. Falmouth operates and maintains a city garage from which it manages the daily operation and maintenance of its Water, Sewer, Electric, and Garbage Divisions. The Water Division should be allocated a share of the cost for operating and maintaining this facility. Test-year expenses have been increased by \$2,315 to account for this allocation.

The costs identified for operating this facility are listed below. Absent a more reasonable allocation method, Staff has allocated these expenses based on the number of customers served by each division. Staff adjusted the depreciable life assigned to the garage from the 20 years as used by Falmouth to 50 years. Falmouth used a 20-year depreciable life for this building but 50 for other buildings included on its depreciation schedules reviewed by Staff. It is Staff's position that 50 years is more reasonable.

| \$<br>1,104                                   |
|---|
| 2,074   |
| 2,124   |
| 796   |
| <br>3,125_                                    |
| <br>  |
| 9,223   |
| 25.10% Calculation shown in salary adjustment |
|   |
| \$<br>2,315                                   |
| \$  |

(S) <u>City Hall</u>. As discussed previously all administrative functions of the Water Division are performed by the City Clerk's Office which is housed in the City Hall building. As such, a portion of the costs to operate City Hall should be allocated to the Water Division. The following expenses were identified as being incurred for the operation of City Hall and allocable.

| Electric                      | \$<br>2,611 |
|-------------------------------|-------------|
| Water                         | 228         |
| Sewer                         | 98          |
| Garbage                       | 192         |
| Phone                         | 3,464       |
| Door Mats                     | 1,073       |
| Supplies                      | 2,250       |
| Repair and Maintenance        | 2,194       |
| Cleaning                      | 375         |
| Insurance                     | 2,711       |
| Depreciation                  | 22,492      |
|                               |             |
| City Hall Expense to Allocate | 37,689      |

The identified expenses were first allocated to all offices that are housed in City Hall which are the Mayor's Office, the County Clerk's Office, and the City Council's Chambers. These office's and chambers consist of one, four, and six people, respectively. The allocation to each office was based on the total number of annual hours spent by these people in City Hall on official business. The allocations are shown below.

|   | City Hall<br>Collective<br>Hours Used<br>Annually | Percent | City Hall<br>Expense<br>Allocation |
|---|---|---------|------------------------------------|
| Mayor (1 person, 8 hrs./day, 5 days/week, 52 weeks per year)                                      | 2,080.00  | 20.99%  | \$ 7,909                           |
| Clerk's Office (Used actual test-year hours as shown in salary adjustment + 2,080 hrs. for Clerk) | 7,687.50  | 77.56%  | 29,232                             |
| City Council (6 members, 2 hrs/mth each)  | 144.00  | 1.45%   | 548                                |
| Total City Hall Hours   | 9,911.50  | 100.00% | \$ 37,689                          |

The \$29,232 allocated to the Clerk's Office was then allocated to the Water Division following the City Clerk's salaries and wages allocation as previously discussed.

| Clerk's Share of City Hall Expense<br>Times: 90 percent  | \$<br><br>29,232 90% Shown and explained in salary adjustment |
|--|---|
| Allocated to Utility Fund<br>Times: Water Unit Customers | 26,309 25.10% Calculation shown in salary adjustment          |
| Water Unit's Share of City Hall Expense                  | \$<br>6,603   |

Water Division test-year expenses have been increased by \$6,603 to account for the allocation of expenses to operate City Hall.

(T) <u>Depreciation</u>. For the test-year the Water Division reported depreciation expense of \$81,529. Falmouth calculates Water Division depreciation using a combined Water and Sewer Division depreciation schedule. This schedule includes all Water and Sewer Division assets. The Water Division is allocated half of the depreciation expense taken on all assets included on this schedule. Falmouth requested to recover \$50,000 of the

test-year depreciation, plus \$114,000 for its capital improvement plan, as shown below, for a total recovery of \$164,000.<sup>4</sup>

| Falmouth's Capital Improvement Plan |               |
|-------------------------------------|---------------|
| Baffle Clearwells                   | \$<br>30,000  |
| Paint Clearwell                     | 10,000        |
| Replace Raw Water Totalizer         | 4,000         |
| Valve Replacement                   | 20,000        |
| Paint Elevated Tank Exterior        | 10,000        |
| Hydrant Replacement                 | 10,000        |
| Meter Replacement                   | 10,000        |
| Main Replacement                    | 15,000        |
| Main Cleaning                       | 5,000         |
|                                     |               |
| Total                               | \$<br>114,000 |

Staff recommends that test-year depreciation expense be decreased by \$2,088 as calculated and explained below.

| Depreciation of Plant from Water     |               |
|--------------------------------------|---------------|
| and Sewer Plant Schedule             | \$<br>70,316  |
| Depreciation on Meter Replacements   | 1,360         |
| Depreciation on Capitalized Items by |               |
| Staff                                | 71            |
| Tank Painting Amortization           | 5,956         |
| Raw Water Totalizer                  | 68            |
| Backhoe                              | 1,669         |
|                                      |               |
| Pro Forma                            | 79,441        |
| Less: Test Year                      | (81,529)      |
|                                      |               |
| Adjustment                           | \$<br>(2,088) |

With the assistance of Falmouth's employees Staff identified those assets included on Falmouth's combined Water and Sewer Division depreciation schedule that are dedicated 100 percent to water operations. All depreciation on these assets was assigned by Staff to the Water Division. The depreciable lives assigned to these assets by Falmouth fall within those prescribed by the National Association of Regulatory Utility

<sup>&</sup>lt;sup>4</sup> Id., Item 25, Page 15 of 26.

Commissioners ("NARUC") and have been adopted by Staff. The following schedule details depreciation of these assets.

| Year in                   |                 |      |             |      |      | Annual  |
|---------------------------|-----------------|------|-------------|------|------|---------|
| Service Asset             |                 |      | Cost        | Life |      | Expense |
| 1974 Oak Haven Wat        | er Line         | \$   | 11,970      | 50   | ) \$ | 239     |
| 1983 Clorinator           |                 |      | 1,634       | 50   | )    | 33      |
| 1988 Equipment            |                 |      | 54,480      | 50   | )    | 1,090   |
| 1988 Equipment            |                 |      | 45,667      | 50   | )    | 913     |
| 1988 Water Line           |                 |      | 10,364      | 50   | )    | 207     |
| 1987 New Water Plar       | nt              |      | 930,336     | 40   | )    | 23,258  |
| 1993 Water Plant Rer      | novation        |      | 1,442,206   | 50   | )    | 28,844  |
| 1996 Chlorination Boo     | oster           |      | 4,048       | 50   | )    | 81      |
| 1997 Water Plant Equ      | uipment         |      | 60,890      | 50   | )    | 1,218   |
| 1997 Water Plant Equ      | uipment         |      | 1,996       | 50   | )    | 40      |
| 1997 Water Tower/Ce       | entral Coating  |      | 38,670      | 50   | )    | 773     |
| 1997 Heritage Ent-fix     | water plant     |      | 26,353      | 50   | )    | 527     |
| 1998 Waterfill Station    |                 |      | 9,800       | 50   | )    | 196     |
| 2001 Tank                 |                 |      | 600,000     | 50   | )    | 12,000  |
| 2001 Waterfill Station    |                 |      | 44,814      | 50   | )    | 896     |
| otal Water Plant included | by Staff from W | /ate | r and Sewer |      |      |         |
| Plant Schedule Other Tha  | •               |      |             |      | 9    | 70,316  |

Test-year depreciation expense includes \$2,623 for depreciation of meter replacements made during 2004. The cost of the meter replacements listed on Falmouth's depreciation schedule is \$78,707. The test-year deprecation expense represents a 15-year service life for the meters with half the annual deprecation expense being allocated to the Water Division while half is allocated to the Sewer Division. These meter replacements are not included by Staff in the schedule above.

The meter replacement cost is included in Falmouth's capital improvement plan annually at \$10,000. Also, a portion of the meter replacement cost is related to Staff's adjustment to correct the reversal of prior period payables for Plant in Service in the amount of \$23,126 as previously discussed. To minimize confusion regarding these accounting entries, Staff has not attempted to make adjustments to Falmouth's records.

Instead, Staff has reviewed all related invoices and information regarding meter replacements to determine the appropriate annual recovery.

Through Falmouth's meter replacement program it has replaced one 6" compound meter used to serve Pendleton County Water District at a cost of \$11,790, one 8" Dyer meter used to serve East Pendleton Water District at a cost of \$11,552, another 8" Dyer meter used to serve East Pendleton Water District at a cost of \$11,700, one 3" meter for an industrial customer at a cost of \$3,700 and 1,100, 3/4-inch meters and three, 1-inch meters at a total cost of \$46,406.

Depreciation of the three wholesale meters has been assigned entirely to the Water Division but the others have been split 51 percent to the Water Division and 49 percent to the Sewer Division based on the number of customers served by each division. This percentage is calculated in the section of this report dedicated to insurance. This split is appropriate and necessary since the sewer billings are based on the meter readings. To determine the annual recovery Staff assigned a service-life of 40-years with a 10 percent salvage value as recommended by NARUC. The 40-year life is the middle of NARUC's recommended life range of 35-45 years. Staff's calculation is presented below.

| Date  | Vendor                | P  | Amount | Cost Less<br>10%<br>Salvage | Life | Annual<br>Recovery | Percent<br>Allocate<br>to Water | <br>located<br>Water |
|-------|-----------------------|----|--------|-----------------------------|------|--------------------|---------------------------------|----------------------|
| 10/03 | National Waterworks   | \$ | 11,790 | \$ 10,611                   | 40   | \$ 265             | 100.00%                         | \$<br>265            |
| 2/04  | National Waterworks   |    | 11,552 | 10,397                      | 40   | 260                | 100.00%                         | 260                  |
| 12/06 | Dyer Meter Service    |    | 11,700 | 10,530                      | 40   | 263                | 100.00%                         | 263                  |
| 12/06 | Dyer Meter Service    |    | 3,700  | 3,330                       | 40   | 83                 | 50.73%                          | 42                   |
| 6/04  | Neptune, 3/4 & 1 inch |    | 23,676 | 21,308                      | 40   | 533                | 50.73%                          | 270                  |
| 7/04  | Neptune, 3/4 & 1 inch |    | 20,115 | 18,104                      | 40   | 453                | 50.73%                          | 230                  |
| 8/04  | Neptune, 3/4 & 1 inch |    | 2,615  | 2,354                       | 40   | 59                 | 50.73%                          | 30                   |
|       |                       |    |        |                             |      |                    |                                 |                      |
|       |                       | \$ | 85,148 | •                           |      |                    |                                 | \$<br>1,360          |

Staff has included a provision for depreciation of test-year expenses that were capitalized by Staff as discussed throughout the previous sections of this report. The following details Staff's calculation.

| New Taps  | \$ | 2,400   |                                 |
|---|----|---------|---------------------------------|
| Capitalized from Repairs and Maintenance          |    |         |                                 |
| Neptune Equipment                                 |    | 709     | 10 - 5/8" and 3 - 1" meters     |
| Capitalized From Supplies Expense                 |    |         |                                 |
| Viking Supply, Inc.                               |    | 1,358   | Meters and supplies             |
| M&M Trailor                                       |    | 775     | Water and sewer utility trailor |
| Neptune Equipment                                 |    | 1,117   | 20 water meters and supplies    |
| Florence Winwater                                 |    | 450     | 24 meter boxes                  |
| Less: Supplies Capitalized for New Tap Adjustment |    | (1,200) | _                               |
| Total Canitalized from Test Veer Evinence         |    | F COO   |                                 |
| Total Capitalized from Test-Year Expenses         |    | 5,609   |                                 |
| Divide by: Service Life                           |    | 40      | _                               |
|   |    | 4.40    |                                 |
| Annual Recovery                                   |    | 140     |                                 |
| Percent to Water                                  |    | 50.73%  | Calculation shown in insurance  |
| Annual Evange to Water                            | Ф. | 74      | _adjustment                     |
| Annual Expense to Water                           | Φ  | /1      | =                               |

Falmouth included tank painting in its capital improvement plan. Falmouth provided Staff a bid for this painting of \$59,562. Staff has included a provision for the 10-year amortization of this amount in its pro forma depreciation. The 10-year period is the anticipated life of the painting and is a standard rate-making methodology. Staff's calculation is shown below.

| Tank Painting Amortize over 10 years | \$<br>59,562<br>10 |
|--------------------------------------|--------------------|
| Annual Recovery                      | \$<br>5,956        |

In August, 2006, Falmouth replaced its raw water totalizer at a total cost of \$2,724. Staff has included a provision for depreciation of this item as calculated below.

Staff assigned a 40-year life to this asset which is the middle of the life range recommended by NARUC.

| Raw Water Totalizer  | \$<br>2,724 |
|----------------------|-------------|
| Depreciable Life     | 40          |
| •                    |             |
| Depreciation Expense | \$<br>68    |

The Water Division should be assigned depreciation taken on vehicles and equipment used for its operations. Through Staff's allocation of insurance for vehicles and equipment, as previously discussed, various vehicles and equipment were identified that are used for water operations. Staff obtained and analyzed depreciation schedules for Falmouth's General Fixed Asset Account Group and Utility Fund and found only the backhoe used by the Water Division has a depreciable balance after the fiscal year end June 30, 2007. Therefore, a provision for depreciation of that asset only has been included by Staff. Staff's allocation of the backhoe depreciation follows that of the insurance for the backhoe and is calculated below.

| Backhoe<br>Depreciable Life             | \$<br>50,700<br>10 |  |
|---|--------------------|--|
| Deprecation Expense<br>Percent to Water | 5,070<br>32.92%    | Calculation shown in salary adjustment |
| Depreciation Expense to Water           | \$<br>1,669        |  |

The projects included in Falmouth's capital improvement plan for which Staff has not included a provision for rate recovery have not been put out for bid or constructed and, therefore, do not meet the known and measurable requirement of administrative regulation 807 KAR 5:001, Section 10 (7) and should not be included in rates.

(U) <u>Interest Income</u>. The Utility Fund reported \$7,508 in interest income for the test-year. This amount was not assigned or allocated to the Utility Fund Operating Divisions. Since the interest was earned on cash and investments funded by service revenues from the Utility Fund Operating Divisions an allocation is appropriate. Staff recommends that test year Water Division operations be allocated \$2,357 in interest income based upon test year service revenues as calculated below.

| Operating Unit                        | Service<br>Revenue                               | Percentage              | -  | Allocated<br>Interest        |
|---------------------------------------|--|-------------------------|----|------------------------------|
| Electric<br>Water<br>Sewer<br>Garbage | \$<br>1,013,124<br>642,371<br>215,235<br>175,170 | 50%<br>31%<br>11%<br>9% | \$ | 3,718<br>2,357<br>790<br>643 |
| Total                                 | \$<br>2,045,900                                  | 100%                    | \$ | 7,508                        |

# Revenue Requirement Calculation:

Falmouth stated its revenue requirement equal to its pro forma operating expenses of \$767,285. Traditionally, the Commission determines the revenue requirement of a non-profit corporation based on its annual debt service requirements. Falmouth has no long-term debt allocable to its Water Division. Although Falmouth's Water Division did report test-year interest expense and amortization of issuance cost the related debt had been fully retired at the time of Staff's field work.

In the absence of debt Staff recommends that an operating ratio of 88 percent be used to determine Falmouth's revenue requirement. Through this method the revenue requirement is determined by dividing pro forma operating expenses by 88 percent. This method has been used by the Commission in the past to provide an operating margin when a utility has no debt. The calculation is shown below.

| Pro Forma Operating Expenses Divide by: Operating Ratio           | \$<br>542,413<br>88%           |
|---|--------------------------------|
| Revenue Requirement Less: Other Operating Revenue Interest Income | 616,379<br>(13,035)<br>(2,357) |
| Revenue Required from Rates<br>Less: Present Rate Revenues        | 600,986<br>(635,171)           |
| Revenue Sufficiency   | \$<br>(34,185)                 |

# ATTACHMENT B STAFF REPORT CASE NO. 2006-00403 COST OF SERVICE STUDY

| CITY OF FALMOUTH              |             |        |  |  |  |  |
|-------------------------------|-------------|--------|--|--|--|--|
| WATER PURCHASED AND SOLD      |             |        |  |  |  |  |
| Total Purchased               | 337,776,900 |        |  |  |  |  |
| Fire Department and Sewer     | -           | 0.0000 |  |  |  |  |
| System Use                    | 6,624,700   | 0.0192 |  |  |  |  |
| Line Loss                     | 114,235,800 | 0.3317 |  |  |  |  |
| Retail Sales                  | 78,274,500  | 0.2273 |  |  |  |  |
| Wholesale Sales (E Pendleton) | 91,038,400  | 0.2643 |  |  |  |  |
| Wholesale Sales (Pendleton)   | 54,228,200  | 0.1575 |  |  |  |  |
| Total                         | 344,401,600 | 1.00   |  |  |  |  |

#### CITY OF FALMOUTH INCH MILE RATIO Total System Pendleton County East Pendleton County Size Feet Miles Inch Miles Feet Miles Inch Miles Feet Miles Inch Miles 1<u>,</u>136 16 1,336 0.25 4.05 0.22 3.44 12 6,488 1.23 14.74 5,502 1.04 12.51 2,679 0.51 6.09 8 28,318 16.05 5.36 42.91 4,492 0.85 6.81 10,596 2.01 6 29,522 5.59 33.55 6,653 1.26 7.56

4,905

21,552

0.93

4.08

3.72

30.59

14,411

2.73

25.58

4

2

1

Inch Mile Ratio

30,476

7,692

1,697

105,529

5.77

1.46

0.32

19.99

0.2516

23.09

2.91

0.32

121.57

0.2104

|          | Appendix B |
|----------|------------|
| Case No. | 2006-00403 |

| CITY                              | OF FALMOUTH                                 |        |
|-----------------------------------|---|--------|
| CITT                              | OI TALWOOTTI                                |        |
| WHOLESALE A                       | ALLOCATION FACTORS                          |        |
|                                   |   | Factor |
| Line Loss Percentage              |   | 0.1500 |
| Plant Use Percentage              |   | 0.0192 |
| Allowable Line Loss & Plant Use   | 0.1500 + 0.192                              | 0.1692 |
| Production Multiplier             | 1/1-0.1692                                  | 1.2037 |
| Inch Mile Ratio                   |   |        |
| Pendleton County                  | 30.59 / 121.57                              | 0.2516 |
| East Pendleton County             | 25.58 / 121.57                              | 0.2104 |
| Wholesale Share of Line Loss      |   |        |
| Pendleton County                  | 0.2516 * 0.1500                             | 0.0377 |
| East Pendleton County             | 0.2104 * 0.1500                             | 0.0316 |
| Joint Share Line Loss / Plant Use |   |        |
| Pendleton County                  | 0.0377 * 0.0192                             | 0.0007 |
| East Pendleton County             | 0.0316 * 0.0192                             | 0.0006 |
| Wholesale Production Multiplier   |   |        |
| Pendleton County                  | 1/1-0.0007                                  | 1.0007 |
| East Pendleton County             | 1/1-0.0006                                  | 1.0006 |
| Production Allocation Factor      |   |        |
| Pendleton County                  | 54,228,200/223,541,100 *<br>(1.0007/1.2037) | 0.2017 |
| East Pendleton County             | 91,038,400/223,541,100 *<br>(1.0006/1.2037) | 0.3385 |
| Pipeline Transmission Factor      |   |        |
| Pendleton County                  | 54,228,200/223,541,100 *<br>0.2516          | 0.0610 |
| East Pendleton County             | 91,038,400/223,541,100 *<br>0.2104          | 0.0857 |
| Use Factor                        |   |        |
| Pendleton County                  | 54,228,200/223,541,100                      | 0.2426 |
| East Pendleton County             | 91,038,400/223,541,100                      | 0.4073 |

|                                   | С   | ITY OI | F FALMOUTH  |        |
|-----------------------------------|---|--------|---|--------|
|                                   | WHOLESA                                     | LE AL  | LOCATION FACTORS  |        |
|                                   |   |        |   | Factor |
| Line Loss Percentage              |   |        | Amount Allowable by PSC   | 0.1500 |
| Plant Use Percentage              |   |        | Taken From Audit Report   | 0.0192 |
| Allowable Line Loss & Plant Use   | 0.3317 + 0.192                              | =      | Line Loss % + Plant Use %   | 0.1692 |
| Production Multiplier             | 1/1-0.3509                                  | =      | 1/(1 - Plant Use %)   | 1.2037 |
| Inch Mile Ratio                   |   |        |   |        |
| Pendleton County                  | 30.59 / 121.57                              | =      | Total Jointly Used Inch Miles / Total Inch Miles  | 0.2516 |
| East Pendleton County             | 94.46 / 121.57                              |        |   | 0.2104 |
| Wholesale Share of Line Loss      |   |        |   |        |
| Pendleton County                  | 0.2516 * 0.1500                             | =      | Inch Mile Ratio X Line Loss %   | 0.0377 |
| East Pendleton County             | 0.7770 * 0.1500                             |        |   | 0.0316 |
| Joint Share Line Loss / Plant Use |   |        |   |        |
| Pendleton County                  | 0.0377 * 0.0192                             | =      | Wholesale Share of Line Loss + Plant Use %  | 0.0007 |
| East Pendleton County             | 0.0316 * 0.0192                             |        |   | 0.0006 |
| Wholesale Production Multiplier   |   |        |   |        |
| Pendleton County                  | 1/1-0.0007                                  | =      | 1/1 - Joint Share Line Loss / Plant Use)  | 1.0007 |
| East Pendleton County             | 1/1-0.0006                                  |        |   | 1.0006 |
| Production Allocation Factor      |   |        |   |        |
| Pendleton County                  | 54,228,200/223,541,100 * (1.0007/1.2037)    | =      | (Sales to Wholesale customers / Total Water Sold) * (Wholesale Production Multiplier / Production Multiplier) | 0.2017 |
| East Pendleton County             | 91,038,400/223,541,100 *<br>(1.0006/1.2037) |        |   | 0.3385 |
| Pipeline Transmission Factor      |   |        |   |        |
| Pendleton County                  | 54,228,200/223,541,100 * 0.2516             | =      | (Sales to Wholesale customers / Total Water Sold) * Inch<br>Mile Ratio  | 0.0610 |
| East Pendleton County             | 91,038,400/223,541,100 * 0.2104             |        |   | 0.0857 |
| Use Factor                        |   |        |   |        |
| Pendleton County                  | 54,228,200/223,541,100                      | =      | Sales to Wholesale Customers / Total Water Sold   | 0.2426 |
| East Pendleton County             | 91,038,400/223,541,100                      |        |   | 0.4073 |

| CITY OF FALMOUTH                     |    |         |    |                    |    |                            |    |         |
|--------------------------------------|----|---------|----|--------------------|----|----------------------------|----|---------|
| ALLOCATION OF EXPENSES               |    |         |    |                    |    |                            |    |         |
| Expense                              |    | Total   |    | mping and reatment |    | ansmission<br>Distribution | C  | ustomer |
| Salaries and Wages                   | \$ | 198,262 | \$ | 115,007            | \$ | 8,885                      | \$ | 74,370  |
| Employee Benefits                    |    | 32,253  |    | 18,707             |    | 1,451                      |    | 12,095  |
| Payroll Taxes                        |    | 15,259  |    | 8,850              |    | 687                        |    | 5,722   |
| Employee Insurance & Workers Comp.   |    | 29,387  |    | 17,045             |    | 1,322                      |    | 11,020  |
| Property Insurance - Treatment Plant |    | 14,481  |    | 14,481             |    |                            |    |         |
| Electricity*                         |    | 20,963  |    | 20,963             |    |                            |    |         |
| Chemicals*                           |    | 41,486  |    | 41,486             |    |                            |    |         |
| Lab Analysis*                        |    | 9,191   |    | 9,191              |    |                            |    |         |
| Maintenance - Plant                  |    | 23,126  |    | 23,126             |    |                            |    |         |
| Postage                              |    | 1,046   |    |                    |    |                            |    | 1,046   |
| Subtotal Less Commodity*             | \$ | 313,814 | \$ | 197,216            | \$ | 12,345                     | \$ | 104,253 |
| Percentage                           |    |         |    | 0.6284             |    | 0.0393                     |    | 0.3322  |
| Administrative and General           |    |         |    |                    |    |                            |    |         |
| Dues & Subscriptions                 |    | 634     |    | 398                |    | 25                         |    | 211     |
| Insurance - General Liability        |    | 35,123  |    | 22,073             |    | 1,382                      |    | 11,668  |
| Office Supplies                      |    | 9,490   |    | 5,964              |    | 373                        |    | 3,153   |
| Advertising & Printing               |    | 2,193   |    | 1,378              |    | 86                         |    | 729     |
| Gas Heating                          |    | 748     |    | 470                |    | 29                         |    | 248     |
| Telephone                            |    | 4,762   |    | 2,993              |    | 187                        |    | 1,582   |
| Legal & Accounting                   |    | 2,624   |    | 1,649              |    | 103                        |    | 872     |
| Equipment Expense                    |    | 649     |    | 408                |    | 26                         |    | 216     |
| Bank Fees                            |    | 821     |    | 516                |    | 32                         |    | 273     |
| City Hall                            |    | 6,603   |    | 4,150              |    | 260                        |    | 2,194   |
| Training & Travel                    |    | 2,680   |    | 1,684              |    | 105                        |    | 890     |
| Uniforms                             |    | 2,306   |    | 1,449              |    | 91                         |    | 766     |
| Motor Fuel                           |    | 1,881   |    | 1,182              |    | 74                         |    | 625     |
| Bad Debts                            |    | 2,400   |    | 1,508              |    | 94                         |    | 797     |
| Maintenance Garage                   |    | 2,315   |    | 1,455              |    | 91                         |    | 769     |
| Maintenance                          |    | 2,240   |    | 1,408              |    | 88                         |    | 744     |
| Miscellaneous                        |    | 51      |    | 32                 |    | 2                          |    | 17      |
| Subtotal                             | \$ | 462,973 | \$ | 317,573            | \$ | 15,395                     | \$ | 130,006 |
| Depreciation                         |    | 79,441  |    | 54,069             |    | 23,940                     |    | 1,431   |
| Total Expenses                       | \$ | 542,413 | \$ | 371,643            | \$ | 39,335                     | \$ | 131,438 |
| *Commodity Costs designated by (*)   | Ψ  | 072,710 | Ψ  | 07 1,040           | ΙΨ | 00,000                     | Ψ  | 101,400 |

Appendix B Case No. 2006-00403

|                                  |            | CITY OF                           | FALMOUTH            |                      |   |                        |                      |
|----------------------------------|------------|-----------------------------------|---------------------|----------------------|---|------------------------|----------------------|
| CITY OF FALMOUTH  WHOLESALE RATE |            |                                   |                     |                      |   |                        |                      |
| Expense                          | Total      | Pendleton<br>Allocation<br>Factor | Amount to Wholesale | Rate to<br>Wholesale | East<br>Pendleton<br>Allocation<br>Factor | Amount to<br>Wholesale | Rate to<br>Wholesale |
| Commodity                        |            |                                   |                     |                      |   |                        |                      |
| Lab Analysis & Electricity       | \$ 30,154  | 0.2017                            | \$ 6,081            | 0.1121               | 0.3385                                    | \$ 10,208              | 0.1121               |
| Chemicals                        | 41,486     | 0.2017                            | 8,367               | 0.1543               | 0.3385                                    | 14,045                 | 0.1543               |
| Operation and Maintenance        |            |                                   |                     |                      |   |                        |                      |
| Pumping and Treatment            | 245,933    | 0.2017                            | 49,599              | 0.9146               | 0.3385                                    | 83,258                 | 0.9145               |
| Transmission and Distribution    | 15,395     | 0.0610                            | 940                 | 0.0173               | 0.0857                                    | 1,319                  | 0.0145               |
| Customer                         | 130,006    |                                   |                     |                      |   |                        |                      |
| Depreciation                     |            |                                   |                     |                      |   |                        |                      |
| Pumping and Treatment            | 54,069     | 0.2017                            | 10,904              | 0.2011               | 0.3385                                    | 18,304                 | 0.2011               |
| Transmission and Distribution    | 23,940     | 0.0610                            | 1,461               | 0.0269               | 0.0857                                    | 2,051                  | 0.0225               |
| Customer                         | 1,431      |                                   |                     |                      |   |                        |                      |
| Total Expenses                   | \$ 542,413 |                                   |                     |                      |   |                        |                      |
| Plus Operating Ratio (88%)       | \$ 73,966  | 0.2017                            | \$ 14,917           | 0.2751               | \$ 0.3385                                 | \$ 25,040              | 0.2751               |
| Less Interest Income             | 2,357      | 0.0610                            | 144                 | 0.0027               | 0.3385                                    | 798                    | 0.0088               |
| Less Other Operating Revenue     | 13,035     | 0.0610                            | 796                 | 0.0147               | 0.3385                                    | 4,413                  | 0.0485               |
| Cost of Service Rate             | 600,987    |                                   | \$ 91,330           | \$ 1.68              |   | \$ 149,016             | \$ 1.64              |